

VASCULAR PLANT TYPE SPECIMENS IN THE UNIVERSITY OF GEORGIA HERBARIUM, WITH A BRIEF HISTORY OF THE HERBARIUM

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ABSTRACT

The University of Georgia Herbarium contains 162 vascular plant specimens that have been designated as types, and for which some form of documentation has been found. These types are catalogued here with label data (locality, date, collector), the kind of type, and a citation of the original publication.

RESUMEN

El Herbario de la Universidad de Georgia contiene 162 especímenes de plantas vasculares que han sido designados como tipos y de los cuales se ha encontrado alguna documentación. Estos tipos están catalogados aquí con datos de etiqueta (localidad, fecha, colector), especificación concreta del tipo, y una cita de la publicación original.

The herbarium at the University of Georgia was founded in the 1920s by John N. Reade, and underwent its first reorganization by Joseph H. Pyron and Rogers McVaugh in the 1930s. It was expanded under the direction of Wilbur H. Duncan who served as curator until his retirement in 1978. Samuel B. Jones, Jr., was appointed curator in 1978 and Nancy C. Coile served as assistant curator. During 1978-1980, the herbarium was reorganized and its scope and activities broadened. In addition, the herbarium library was formally established. In 1981, Samuel B. Jones was named Director of the herbarium and Nancy C. Coile became the curator. Michael O. Moore became curator in 1989, and David E. Giannasi became Director in 1991. The University of Georgia herbarium serves as a repository of samples of southeastern U.S., with emphasis on the flora of the state and has as one of its major goals elucidating the flora of Georgia. During 1979, the herbarium staff prepared check-lists for the floras of Clarke County and the state of Georgia (Jones and Coile 1979a, 1979b). In 1985, the 2nd edition of the Georgia Plant List was issued (Coile and Jones 1985). In 1985-1986, an electronic high density mobile storage system (compactor) was installed in the herbarium. This compactor system almost doubled the storage capacity of the herbarium and will allow for continued growth of the collection. In 1988, Jones and Coile published *The Distribution of the Vascular Flora of Georgia* (Jones and Coile 1988). This publication has distribution maps by

counties for all native or naturalized plant species occurring in Georgia based upon voucher specimens deposited in institutional herbaria. Although 5,000 copies were printed, demand for this publication has been great, and it is now out of print. The publication represented an important next step toward the development of a state Flora.

The herbarium now holds over 206,000 mounted specimens, of which 162 have been documented as types. This latter number does not include topotypes, paratypes, or specimens suspected as being types, but for which no literature citation could be found. A number of these specimens are of historical significance, particularly collections of 22 taxa made by A.H. Curtiss, a prominent early collector in the southeastern United States from 1884-1899.

Catalogued specimens were documented in at least one three ways: (1) through citation in the original publication; (2) through citation as a type in a secondary publication, and (3) through annotation as a type by a later researcher. Where the original or a secondary publication was consulted, the location of the holotype is also given. The label data (locality, date, collector, collection number), the reference citation, the kind of type, and source(s) of documentation are given for each specimen. The following catalogue is divided into four sections: Pteridophyta, Gymnospermae, monocotyledons and dicotyledons. Within each section, taxa are listed alphabetically by genus.

CATALOGUE OF TYPE SPECIMENS

PTERIDOPHYTA

Isoetes tagetiformans P.M. Rury, Amer. Fern J. 68:99–108. 1978. ISOTYPE. U.S.A. GEORGIA. Columbia Co.: Heggies Rock, 3.8 mi E from Columbia Junior High School along GA 232 and County Rd 2122, 33° 32'30" N, 82° 15'05" W, 21 Jan 1978, P.M. Rury & M. Treiber 259; cited in original publication (HOLOTYPE: NCU).

Thelypteris pilosa (M. Martens & Galeotti) Craw. var. **alabamensis** Craw., Amer. Fern J. 41:15–20. 1951. SYNTYPE. U.S.A. ALABAMA. Winston Co.: in fissures of Pottsville Sandstone on W fork of Sipsey River, 5 mi E of Double Springs, 26 Nov 1949, L.C. Crawford & C.B. Segars 1103; cited in original publication.

Woodsia scopulina D. Eaton ssp. **laurentiana** Windham, Contr. Univ. Michigan Herb. 19:59. 1993. ISOTYPE. CANADA. QUEBEC. Gaspe Co.: on sandstone sea-cliffs, 19–21 Aug 1905, Collins & Fernald 25351; annotated as isotype by M.D. Windham, 1993.

GYMNOSPERMAE

Podocarpus lucienii Laubenf., Brittonia 12:80. 1960. ISOTYPE. NEW CALEDONIA: scattered and locally common on slopes above and N of Riviere Bleue River, 5 mi from confluence with Yate River, 10 Oct 1957, D.J. de Laubenfels P137; cited in original publication (HOLOTYPE: GH).

ANGIOSPERMAE

MONOCOTYLEDONS

Aletris lutea Small forma **albiflora** E.T. Browne, Rhodora 63:305. 1961. HOLOTYPE. U.S.A. GEORGIA. Chatham Co.: low ground at edge of Cypress stand 15.3 mi W 4° S of

Savannah City Hall, NW of Old Ogeechee Canal on Bamboo Farm-Pembroke Road, 13 Jun 1958, W.H. Duncan 20982; cited in original publication.

Allium passeyi N.H. Holmgren & A.H. Holmgren, Brittonia 26:309. 1974. ISOTYPE. U.S.A. UTAH. Box Elder Co.: SW part of Howell Valley, T11N, R5W, S7, 13 Jun 1960, A.H. Holmgren, H.B. Passey & V.K. Hugie 13125, cited in original publication (HOLOTYPE: NY).

Andropogon brachystachyus Chapm., Fl. S U.S. ed. 2:688. 1883. ISOLECTOTYPE. U.S.A. FLORIDA: dry pine barrens near Jacksonville, Oct no year, A.H. Curtiss 3632; annotated as isolectotype by C.S. Campbell, 1980.

Andropogon virginicus L. var. *glaucus* Hack. in DC., Monogr. Phan. 6:411. 1889. ISOTYPE. U.S.A. FLORIDA: dry pine barrens near Jacksonville, Nov no year, A.H. Curtiss 3638b; annotated as isotype by C.S. Campbell, 1980.

Aristida lanuginosa Scribner ex Hitchc., Contr. U.S. Natl. Herb. 17:278. 1913. ISOTYPE. MEXICO. JALISCO: hills near Guadalajara, 28 Oct 1889, C.G. Pringle 2375; cited in original publication (HOLOTYPE: US).

Calochortus rhodothecus Clokey, Bull. S. Calif. Acad. Sci. 37:1. 1938. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, Charleston Park, 21 Jul 1937, I.W. Clokey 7479; cited in original publication.

Carex × absconditiformis Fernald, Rhodora 44:387. 1942. ISOTYPE. U.S.A. VIRGINIA. Sussex Co.: bottomland woods along Nottoway River, E of Huske, 13 Jun 1941, M.L. Fernald & B. Long 12969; cited in original publication, annotated as isotype by C.T. Bryson, 1980 (HOLOTYPE: GH).

Carex amplisquama F.J. Herm., Rhodora 57:157–158. 1955. ISOTYPE. U.S.A. GEORGIA. Gilmer Co.: 8 mi E of Chatsworth, 15 May 1938, J.H. Pyron & R. McVaugh 2951; cited in original publication (HOLOTYPE: US).

Carex austrocaroliniana F.M. Bailey, Am. J. Sci. 45:173. 1843. ISOTYPE. U.S.A. CAROLINA AND GEORGIA: in montibus, no date, S.B. Buckley s.n.; annotated as isotype by C.T. Bryson, 1980.

Carex digitalis Willd. var. *asymetrica* Fernald, Rhodora 43:544. 1941. ISOTYPE. U.S.A. VIRGINIA. Southampton Co.: steep wooded banks, ravines and clearings near Three Creek, NW of Applewhite Church, 8 May 1940, M.L. Fernald and B. Long 11791; cited in original publication, annotated as isotype by C.T. Bryson, 1980 (HOLOTYPE: GH).

Carex interior F.M. Bailey var. *charlestonensis* Clokey, Bull. S. Calif. Acad. Sci. 38:1. 1939. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, Charleston Peak, damp soil by spring, 19 Jun 1937, I.W. Clokey 7468; annotated as isotype by A.A. Reznicek, 1978.

Carex lucorum Willd. ex Link var. *austrolucorum* J.H. Rettig, Sida 13:449–450. 1989. HOLOTYPE. U.S.A. NORTH CAROLINA. Buncombe Co.: along NC 9, 5.0 mi N of jct. with US 74 in town of Bat Cave, 6 May 1986, J.H. Rettig 1554; cited in original publication, annotated as holotype by J.H. Rettig, 1988.

Carex manhartii Bryson, Castanea 50:15–17. 1985. HOLOTYPE & ISOTYPE. U.S.A. NORTH CAROLINA. Macon Co.: Coweeta Hydrologic Lab, Stewart Trail, 17 May 1981, J.R. Manhart 293; annotated as holotype and isotype by C.T. Bryson, 1985.

Carex mohriana Mackenzie, N. Amer. Fl. 18:106. 1931. ISOTYPE. U.S.A. FLORIDA: swamp near Wauchula, 15 Apr 1901, A.H. Curtiss 6761; annotated as isotype by A.A. Reznicek, 1978.

Carex shortiana Dewey, MSS. Dewey, Car. XXX, p. 60. ISOTYPE. U.S.A. KENTUCKY: Lexington, no date, Short s.n.; annotated as isotype by S. McDaniel, 1971.

Cyperus granitophilus McVaugh, Castanea 2:103. 1937. HOLOTYPE. U.S.A. GEORGIA. Walton Co.: sandy depression in granite rocks, 1 mi E of Loganville, 3 Oct 1936, J.H. Pyron & R. McVaugh 971; cited in original publication.

Eragrostis chiquitaniensis T. Killeen, Ann. Missouri Bot. Gard. 77:153. 1990. ISOTYPE.

BOLIVIA. Santa Cruz, Chiquitos, Est. San Ignacio, 22 km N of San Jose, $17^{\circ} 35' S$, $60^{\circ} 45' W$, 1 Feb 1986, *T. Killeen* 1728; cited in original publication.

Erythronium umbilicatum C. Parks & Hardin ssp. *monostolum* C. Parks & Hardin, Brittonia 15:254. 1963. ISOTYPE. U.S.A. NORTH CAROLINA. Swain Co.: rich woods near Indian Gap, 6 May 1961, *J. W. Hardin* 2360; cited in original publication (HOLOTYPE: NCSC).

Erythronium umbilicatum C. Parks & Hardin ssp. *umbilicatum*, Brittonia 15:252–253. 1963. ISOTYPE. U.S.A. NORTH CAROLINA. Iredell Co.: along slope above stream, 9 mi W of Statesville off I40, 13 May 1961, *J. W. Hardin* 2368; cited in original publication (HOLOTYPE: NCSC).

Fimbristylis diphylla (Retz.) Vahl ssp. *diffusa* D.B. Ward, Castanea 33:127. 1968. ISOTYPE. U.S.A. FLORIDA. Alachua Co.: FL 121, Williston Rd., ca. 4 mi SW of Gainesville near NW corner of Paynes Prairie, 13 Aug 1966, *D.B. Ward* 5867; cited in original publication (HOLOTYPE: FLAS).

Habenaria blephariglottis (Willd.) Hook. var. *integrilabia* Correll, Bot. Mus. Leafl. 9:153–156. 1941. ISOTYPE. U.S.A. KENTUCKY. McCreary Co.: in *Sphagnum* bog with *Xyris* 3 mi N of Whitley City, 27 Aug 1940, *F.T. McFarland & H.J. Rogers* 97; cited in original publication (HOLOTYPE: AMES).

Hosta jonesii M.G. Chung, Ann. Missouri Bot. Gard. 76:920. 1989. HOLOTYPE. KOREA: KYEONGSAN NAM DO PROVINCE: Namhae Gun, Sangu Myeon, Mt. Kumsan, 28 Aug 1988, *M.G. Chung* 1613; cited in original publication.

Hypoxis curtissii Rose in Small, Fl. SE U.S. 287, 1329. 1903. ISOTYPE. U.S.A. FLORIDA: swamps near Jacksonville, 19 May 1894, *A.H. Curtiss* 4727; annotated as isotype by A. Herndon, 1990.

Najas major All. var. *gracilis* Morong, Bot. Gaz. 10:255. 1885. ISOTYPE. U.S.A. FLORIDA: Palm Creek near Cape Romano, Jul no year, *A.H. Curtiss* 2705; annotated as isotype by R.R. Haynes, 1974.

Nolina atopocarpa Bartlett, Rhodora 11:81. 1909. ISOTYPE. U.S.A. FLORIDA: Indian River, Eau Gallie, no date, *A.H. Curtiss* 5702; cited in original publication (HOLOTYPE: GH).

Rhynchospora curtissii Britton ex Small, Fl. SE U.S. 195, 1327. 1903. ISOTYPE. U.S.A. FLORIDA: low roadside near Milton, 8 Jul 1897, *A.H. Curtiss* 5929; annotated as isotype by S.M. Kooyman, 1980.

Rhynchospora oligantha A. Gray var. *breviseta* Gale, Rhodora 46:128–130. 1944. ISOTYPE. U.S.A. FLORIDA: damp pine barrens near Jacksonville, 19 Jun 1896, *A.H. Curtiss* 5687; cited in original publication, annotated as isotype by S.M. Kooyman, 1980 (HOLOTYPE: GH).

Sagittaria secundifolia Kral, Brittonia 34:12–13. 1982. ISOTYPE. U.S.A. ALABAMA. DeKalb Co.: cracks in sandy flatrock shallows, sandy shallow pools and depths up to 0.75 m even at low stage, Little River above AL 35 bridge, 27 Jul 1977, *R. Kral* 60639; cited in original publication (HOLOTYPE: US).

Scirpus rubiginosus Beetle, Amer. J. Bot. 28:697. 1941. ISOTYPE. U.S.A. CALIFORNIA. Marin Co.: tide flat N of Stinson Beach, 9 May 1941, *A.A. Beetle* 2686; cited in original publication.

Sporobolus teretifolius R.M. Harper, Bull. Torrey Bot. Club 33:229–231. 1906. ISOTYPE. U.S.A. GEORGIA. Colquitt Co.: moist pine barrens near Moultrie, 20 Sep 1902, *R.M. Harper* 1642; cited in original publication (HOLOTYPE: NY).

Trillium decipiens J.D. Freeman, Brittonia 27:17–18. 1975. ISOTYPE. U.S.A. GEORGIA. Early Co.: common in rich woods on W facing bluff of Chattahoochee River, just below Tenneco Oil Depot and S of GA 162, 28 Mar 1968, *J.D. Freeman* 615; cited in original publication, annotated as isotype by J.D. Freeman, 1968 (HOLOTYPE: GH).

Trillium foetidissimum J.D. Freeman, Brittonia 27:31–32. 1975. ISOTYPE. U.S.A. MISSISSIPPI. Adams Co.: in loess ravines under rich hardwoods S of US 61-84-98, 1.2 mi E of St. Catherine Creek in Natchez, 30 Mar 1967, *J.D. Freeman* 535; cited in original publication, annotated as isotype by J.D. Freeman, 1968 (HOLOTYPE: GH).

Trillium lancifolium Raf., Autik. bot.:132. 1840. ISONEOTYPE. U.S.A. FLORIDA. Gadsden Co.: moist slopes in woods, Chattahoochee, 14 Mar 1901, *A.H. Curtiss* 6747; cited as isoneotype by J.D. Freeman, 1975, Brittonia 27:10 (NEOTYPE: GH).

Trillium persistens W. Duncan, Rhodora 73:244–246. 1971. ISOTYPE. U.S.A. GEORGIA. Rabun Co.: open deciduous woods on S facing slope of Tallulah Gorge, 23 Mar 1971, *W.H. Duncan* 23548; cited in original publication (HOLOTYPE: US).

Trillium reliquum J.D. Freeman, Brittonia 27:21. 1975. ISOTYPE. U.S.A. GEORGIA. Columbia Co: (Richmond Co. on label and original publication, but Freeman says Columbia), rich woods on bluff slope at mouth of ravine, E facing bluff of Savannah River, ca. 5 mi above Augusta, 30 Mar 1968, *J.D. Freeman* 625; cited in original publication, annotated as isotype by J.D. Freeman, 1967 (HOLOTYPE: GH).

Yucca smalliana Fernald, Rhodora 46:8. 1944. ISOTYPE. U.S.A. FLORIDA: sandy soil near Jacksonville, May no year, *A.H. Curtiss* 2950, cited in original publication (HOLOTYPE: GH).

DICOTYLEDONS

Agalinis acuta Pennell, Bull. Torrey Bot. Club 42:338. 1915. ISOTYPE. U.S.A. MASSACHUSETTS. Martha's Vineyard, Edgartown, dry sandy downs, 12 Sep 1901, *M.L. Fernald* 45; cited in original publication, annotated as isotype by J.M. Canne, 1985 (HOLOTYPE: US).

Agalinis edwardsiana Pennell, Proc. Acad. Nat. Sci. Philadelphia 73:522. 1922. ISOTYPE. U.S.A. TEXAS. Kendall Co.: dry adobe hills 5 mi NE of Boerne, 16 Sep 1913, *F.W. Pennell* 5482; cited in original publication (HOLOTYPE: PENN).

Agalinis homolantha Pennell, Proc. Acad. Nat. Sci. Philadelphia 73:525. 1922. ISOTYPE. U.S.A. TEXAS. Colorado Co.: sandy oak woodland NW of Sheridan along SA & AP railroad, 21 Sep 1913, *F.W. Pennell* 5522; cited in original publication (HOLOTYPE: PENN).

Amorpha georgiana Wilbur, Rhodora 56:261–263. 1954. ISOTYPE. U.S.A. GEORGIA. Telfair Co.: 3 mi NW of Lumber City on US 23, dry savannah and river bank, 9 May 1953, *R.L. Wilbur* 3158; cited in original publication (HOLOTYPE: GH).

Amorpha ouachitensis Wilbur, Rhodora 77:394–397. 1975. ISOTYPE. U.S.A. OKLAHOMA. LeFlore Co.: dry rocky (sandstone) hills, Page, 23 Sep 1921, *E.J. Palmer* 20572; cited in original publication, annotated as isotype by R.L. Wilbur, 1973 (HOLOTYPE: A).

Amorpha virgata Small, Bull. Torrey Bot. Club 21:17. 1894. ISOLECTOTYPE. U.S.A. GEORGIA. DeKalb Co.: NW slope of Stone Mountain, 3 Jul 1893, *J.K. Small* s.n.; cited as isolectotype by R.L. Wilbur, 1977, Rhodora 77:398 (LECTOTYPE: NY).

Aquilegia scopulorum Tidestrom ssp. *perplexans* Clokey, Bull. S. Calif. Acad. Sci. 37:3. 1939. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, Charleston Peak, broken rocky slope above timberline, 16 Jul 1936, *I.W. Clokey* 7094; cited in original publication.

Arenaria lanuginosa (Michaux) Rohrb. var. *longipedunculata* W. Duncan, Phytologia 3:282. 1950. ISOTYPE. U.S.A. GEORGIA. Fulton Co.: S side of Chattahoochee River, E of Marsh Creek, 5 Jun 1949, *W.H. Duncan* 9701; cited in original publication (HOLOTYPE: NY).

Aster divaricatus L. var. *deltoideus* E.S. Burgess in Britton & Brown, Ill. Fl. N U.S. 3:357. 1898. ISOLECTOTYPE. U.S.A. DISTRICT OF COLUMBIA. Opposite Analostan, thickets, 27 Sep 1888, *E.S. Burgess* s.n.; cited as isolectotype by W.F. Lamboy & A.G. Jones, 1987, Brittonia 39:290.

Aster erectus E.S. Burgess, Mem. Torrey Bot. Club 13:147. 1906. ISOLECTOTYPE. U.S.A. NEW YORK: vicinity of New York City, Bryn Mawr Park, 26 Sep 1896, *E.S. Burgess s.n.*; cited as isolectotype by W.F. Lamboy & A.G. Jones, 1987, Brittonia 39:290.

Aster jonesiae Lamboy, Syst. Bot. 13:192–193. 1988. HOLOTYPE & ISOTYPE. U.S.A. GEORGIA. Upson Co.: oak-hickory woods at E base of Pine Mountain, near Pasley Shoals, W of Thomaston, 10 Sep 1947, *A. Cronquist* 4694; cited in original publication, annotated as holotype and isotype by W.F. Lamboy, 1988.

Aster roscidus E.S. Burgess in Britton & Brown, Ill. Fl. N U.S. 3:360. 1898. ISOLECTOTYPE. U.S.A. NEW YORK: Bryn Mawr Park, 14 Sep 1897 (1898?), *E.S. Burgess s.n.*; cited as isolectotype by W.F. Lamboy & A.G. Jones, 1987, Brittonia 39:290.

Aster tenuifolius L. var. *aphyllus* R. Long, Rhodora 72:40–41. 1970. ISOTYPE. U.S.A. FLORIDA. Hillsborough Co.: NW of Tampa, S of FL 580 and W of Rocky Creek, 24 Dec 1962, *O. Lakela* 25610; cited in original publication, annotated as isotype by S. Sundberg, 1986 (HOLOTYPE: GH).

Astragalus aequalis Clokey, Madroño 6:215. 1942. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, hillside Juniper belt, Harris Springs Road, 4 Jun 1937, *I.W. Clokey* 7572; cited in original publication.

Astragalus hemigyrus Clokey, Madroño 6:220. 1942. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, rock ledges, *Larrea* belt, S of Indian Springs, 18 Apr 1939, *I.W. Clokey* 8409; cited in original publication.

Baptisia arachnifera W. Duncan, Rhodora 46:29–31. 1944. ISOTYPE. U.S.A. GEORGIA. Wayne Co.: sandy soil in open pine woods 10 mi S of Jesup, 4 Jul 1943, *W.H. Duncan* 5693; cited in original publication (HOLOTYPE: GH).

Baptisia pendula Larisey, Ann. Missouri Bot. Gard. 27:171. 1940. ISOTYPE. U.S.A. GEORGIA. Decatur Co.: dry open woods bordering the Flint River near Bainbridge, 19 Jul 1901, *A.H. Curtiss* 6810; annotated as isotype by D. Isely, 1978.

Bidens mariana S.F. Blake, Rhodora 31:88. 1929. ISOTYPE. U.S.A. MARYLAND: sandy shore of Northeast River near Carpenters Point, Charleston, 17 Sep 1926, *S.F. Blake* 9698; cited in original publication (HOLOTYPE: US).

Bigelowia nuttallii L.C. Anderson, Sida 3:460–461. 1970. ISOTYPE. U.S.A. GEORGIA. Tattnall Co.: W bank of Ohoopee River 3.5 mi W of Reidsville, 12 Nov 1969, *L.C. Anderson* 3455; cited in original publication (HOLOTYPE: KSC).

Bumelia thornei Cronquist, Castanea 14:103. 1949. HOLOTYPE. U.S.A. GEORGIA. Early Co.: in dry live oak woods by cypress swamp, 1 mi E of Nantz Spring, 22 Oct 1947, *R.F. Thorne* 7345; cited in original publication.

Calycanthus brockiana Ferry & Ferry f., Sida 12:339. 1987. HOLOTYPE. U.S.A. GEORGIA. Lumpkin Co.: 12.8 mi SW of Dahlonega, S of E-W dirt farm road in open deciduous forest, 10 May 1982, *R.J. Ferry Sr.* 637, annotated as holotype by R.J. Ferry & R.J. Ferry f., 1987.

Castilleja christii N.H. Holmgren, Bull. Torrey Bot. Club 100:91. 1973. ISOTYPE. U.S.A. IDAHO. Cassia Co.: Cache Peak Range, Harrison Mountain, near top, T13S, R24E, S9, 12 Jul 1966, *N.H. Holmgren & J.L. Reveal* 2866; cited in original publication (HOLOTYPE: NY).

Castilleja clokeyi Pennell, Proc. Acad. Nat. Sci. Philadelphia 89:420. 1938. ISOTYPE. U.S.A. NEVADA. Clark Co.: Kyle Canyon, gravelly loam on N slope, 8 Jul 1936, *I.W. Clokey & C.B. Clokey* 7322; cited in original publication.

Cirsium clokeyi S.F. Blake, Proc. Biol. Soc. Wash. 49:8. 1938. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, ridge near peak, gravelly open slopes, 6 Aug 1937, *I.W. Clokey* 7456; cited in original publication (HOLOTYPE: US).

Clematis morefieldii Kral, Ann. Missouri Bot. Gard. 74:665. 1987. ISOTYPE. U.S.A. ALABAMA. Madison Co.: SE of Huntsville along upslope side of eastward unpaved extension

of Deborah Ave., 0.75 mi SSW of Red Top Mountain, 17 Jun 1983, *R. Kral* 70176; cited in original publication.

Clematis socialis Kral, *Rhodora* 84:287–289. 1982. ISOTYPE. U.S.A. ALABAMA. St. Clair Co.: silt and clay of alluvial openings in bottoms of Dry Creek and contiguous hardwood forested edges, ca. 3 mi S of Ashville, 2 May 1980, *R. Kral* 64852; cited in original publication (HOLOTYPE: US).

Clitoria fragrans Small, *Torreya* 26:57. 1926. ISOTYPE?. U.S.A. FLORIDA. Highlands Co.: sandhills near DeSoto City, 20 May 1925, *J.K. Small & E.T. Wherry* 12626; note on label states that Gleason could not find the type at NY in 1945, annotated as possible isotype by "J.M.," 1959.

Cordylanthus glandulosus Pennell & Clokey, *Proc. Acad. Nat. Sci. Philadelphia* 90:11. 1938. ISOTYPE. U.S.A. NEVADA. Clark Co.: Charleston Mountains, brushy hills, Juniper Belt, Harris Springs Road, 16 Jul 1937, *I.W. Clokey* 7715; cited in original publication.

Coreopsis leavenworthii T. & G. var. *curtissii* Sherff, *Bot. Gaz.* 94:592. 1933. ISOTYPE. U.S.A. FLORIDA: dry pasture ground along the Suwannee River near Branford, 23 Oct 1900, *A.H. Curtiss* 6734; annotated as isotype by E.B. Smith, 1976.

Coreopsis longifolia Small var. *godfreyi* Sherff, *Bot. Leafl.* 6:3. 1952. HOLOTYPE. U.S.A. GEORGIA. Wheeler Co.: boggy, sphagnous depression in sandhills 7 mi S of McRae, 14 Oct 1950, *R.K. Godfrey* 50793; annotated as "type" by E.E. Sherff, no date.

Coreopsis saxicola Alex. var. *duncanii* Sherff, *Bot. Leafl.* 6:2. 1952. HOLOTYPE. U.S.A. GEORGIA. Oglethorpe Co.: shallow soil at edge of thickly vegetated drain at Echols Mill, SE of Point Peter, 4 Aug 1941, *W.H. Duncan* 3832; annotated as "type" by E.E. Sherff, no date.

Couepia dolichopoda Prance, *Brittonia* 26:302. 1974. ISOTYPE. PERU. DEPT. OF LORETTO: Varadera de Mazon from Rio Amazonas to Rio Napo, primary forest, 21 Aug 1972, *T.B. Croat* 19382; cited in original publication (HOLOTYPE: NY).

Dedeckera eurekaensis Rev. & J.T. Howell, *Brittonia* 28:246–248. 1976. ISOTYPE. U.S.A. CALIFORNIA. Inyo Co.: Last Chance Range in a rock canyon, ca. 3 air mi SE of Eureka Valley sand dunes and 3.5 air mi NW of Marble Valley VABM 7559 in T10S, R40E, 29 Jul 1975, *J.L. Reveal*, *M.C. DeDecker & P.W. DeDecker* 3909; cited in original publication (HOLOTYPE: US).

Dicerandra frutescens Shinners, *Sida* 1:89–90. 1962. ISOTYPE. U.S.A. FLORIDA. Highlands Co.: 20 mi S of Sebring along Route 27, 28 Aug 1953, *F.H. Sargent* 6600; cited in original publication, annotated as isotype by R.B. Huck, 1984 (HOLOTYPE: SMU).

Dipsacus sylvestris Hudson f. *albidus* Steyermark, *Rhodora* 60:175. 1958. ISOTYPE. U.S.A. ILLINOIS. Cook Co.: undeveloped section, Mt. Hope Cemetery, Chicago, 115th Street, 25 Aug 1957, *K.E. Bartel* s.n.; cited in original publication (HOLOTYPE: F).

Enceliopsis nudicaulis (A. Gray) Nelson var. *corrugata* Cronquist, *Bull. Torrey Bot. Club* 99:246. 1973. ISOTYPE. U.S.A. NEVADA. Nye Co.: about outcrops of pale hard limestone in *Larrea* desert about 15 (airline) mi SE of Lathrop Wells, T17S, R51E, about S20, 20 Apr 1966, *A. Cronquist* 10648; cited in original publication (HOLOTYPE: NY).

Eriogonum aliquantum Rev., *Phytologia* 34:460–461. 1976. ISOTYPE. U.S.A. NEW MEXICO. Colfax Co.: 0.3 mi W of NM 21, 4.4 mi S of US 64 at Cimarron on the Philmont Scout Ranch, 14 Jul 1972, *J.L. Reveal* 277; cited in original publication (HOLOTYPE: US).

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